

ABSTRACT OF THE DISCLOSURE

In a video coding apparatus 1, a conversion unit 8 converts an image into atom information including index information to a basis, a coefficient and positional information specifying a position where a pattern is restored. An encoding unit 12 encodes an atom flag specifying existence of atom information and the number of items of atom information for each of blocks into which the image is divided. The encoding unit 12 converts the positional information of the atom information included in each of the block into positional information which specifies a relative position in the block, and encodes the atom information to generate a compression code. The above processing is performed while changing the size of the block, and the compression code with the minimum bit rate and a code relating to the size of the block used for the generation thereof are included in compression data.